

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/003367 A2

(51) International Patent Classification⁷: **C12P 35/04**,
C07D 501/00, C12N 9/84, 11/04

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(21) International Application Number:

PCT/EP2004/007291

(22) International Filing Date: 1 July 2004 (01.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

03077102.6 3 July 2003 (03.07.2003) EP
03104445.6 28 November 2003 (28.11.2003) EP

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE PREPARATION OF CEPHRADINE

(57) Abstract: The present invention describes a process for preparing cephradine, said process comprising reacting 7-aminode-
sacetoxy cephalosporanic acid (7-ADCA) with D-dihydrophenylglycine in activated form (DHa) in the presence of an enzyme in
a reaction mixture to form cephradine, resulting in a conversion of 7-ADCA into cephradine of at least 70 %, wherein the concen-
tration D-dihydrophenylglycine (DH) in the reaction mixture is below 2 wt.%, wherein the conversion of 7-ADCA into cephradine
= (n_{CEF}/ n_{7-ADCA}) *100%, wherein n_{CEF}=quantity of cephradine formed (in mole); and n_{7-ADCA}=total quantity of 7-ADCA
added to reaction mixture (in mole). The invention also describes a process for the preparation of cephradine hydrate characterised
in that the process comprises: - reacting 7-amino acid desacetoxyc cephalosporanic acid (7-ADCA) with DHa in the presence of an
enzyme in a reaction mixture to form cephradine; - preparing an aqueous solution comprising at least part of the cephradine; and
crystallising the cephradine from said aqueous solution. The invention further describes cephradine hydrate obtainable by a process
according to invention. The invention also describes cephradine hydrate with an absorbance at 450 nm of below 0.050.

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